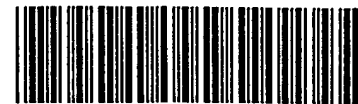# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/620,491_
Source: _1Fw/6_
Date Processed by STIC: _6/13/06_

ENTERED

RAW SEQUENCE LISTING   DATE: 06/13/2006
PATENT APPLICATION: **US/10/620,491** TIME: 09:55:59

Input Set : **A:\214381.APP**
Output Set: **N:\CRF4\06132006\J620491.raw**

```
 3 <110> APPLICANT: MYNARCIK, DENNIS C.
 5 <120> TITLE OF INVENTION: PROTEIN BINDING DETERMINATION AND MANIPULATION
 7 <130> FILE REFERENCE: 21438/1
 9 <140> CURRENT APPLICATION NUMBER: 10/620,491
10 <141> CURRENT FILING DATE: 2003-07-16
12 <150> PRIOR APPLICATION NUMBER: 60/396,428
13 <151> PRIOR FILING DATE: 2002-07-17
15 <160> NUMBER OF SEQ ID NOS: 4
17 <170> SOFTWARE: PatentIn Ver. 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 15
21 <212> TYPE: PRT
22 <213> ORGANISM: Artificial Sequence
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
26       peptide
28 <400> SEQUENCE: 1
29 Gly Leu Asn Asp Ile Phe Glu Ala Gln Lys Ile Glu Trp His Glu
30  1               5                  10                  15
33 <210> SEQ ID NO: 2
34 <211> LENGTH: 508
35 <212> TYPE: PRT
36 <213> ORGANISM: Homo sapiens
38 <400> SEQUENCE: 2
39 Met Asp His Leu Gly Ala Ser Leu Trp Pro Gln Val Gly Ser Leu Cys
40  1               5                  10                  15
42 Leu Leu Leu Ala Gly Ala Ala Trp Ala Pro Pro Asn Leu Pro Asp
43              20                  25                  30
45 Pro Lys Phe Glu Ser Lys Ala Ala Leu Leu Ala Ala Arg Gly Pro Glu
46          35                  40                  45
48 Glu Leu Leu Cys Phe Thr Glu Arg Leu Glu Asp Leu Val Cys Phe Trp
49      50                  55                  60
51 Glu Glu Ala Ala Ser Ala Gly Val Gly Pro Gly Asn Tyr Ser Phe Ser
52  65                  70                  75                  80
54 Tyr Gln Leu Glu Asp Glu Pro Trp Lys Leu Cys Arg Leu His Gln Ala
55                  85                  90                  95
57 Pro Thr Ala Arg Gly Ala Val Arg Phe Trp Cys Ser Leu Pro Thr Ala
58              100                 105                 110
60 Asp Thr Ser Ser Phe Val Pro Leu Glu Leu Arg Val Thr Ala Ala Ser
61          115                 120                 125
63 Gly Ala Pro Arg Tyr His Arg Val Ile His Ile Asn Glu Val Val Leu
64      130                 135                 140
66 Leu Asp Ala Pro Val Gly Leu Val Ala Arg Leu Ala Asp Glu Ser Gly
```

```
67 145                   150                  155                      160
69 His Val Val Leu Arg Trp Leu Pro Pro Pro Glu Thr Pro Met Thr Ser
70               165                  170                  175
72 His Ile Arg Tyr Glu Val Asp Val Ser Ala Gly Asn Gly Ala Gly Ser
73               180                  185                  190
75 Val Gln Arg Val Glu Ile Leu Glu Gly Arg Thr Glu Cys Val Leu Ser
76           195                  200                  205
78 Asn Leu Arg Gly Arg Thr Arg Tyr Thr Phe Ala Val Arg Ala Arg Met
79       210                  215                  220
81 Ala Glu Pro Ser Phe Gly Gly Phe Trp Ser Ala Trp Ser Glu Pro Val
82 225                  230                  235                  240
84 Ser Leu Leu Thr Pro Ser Asp Leu Asp Pro Leu Ile Leu Thr Leu Ser
85               245                  250                  255
87 Leu Ile Leu Val Val Ile Leu Val Leu Leu Thr Val Leu Ala Leu Leu
88               260                  265                  270
90 Ser His Arg Arg Ala Leu Lys Gln Lys Ile Trp Pro Gly Ile Pro Ser
91           275                  280                  285
93 Pro Glu Ser Glu Phe Glu Gly Leu Phe Thr Thr His Lys Gly Asn Phe
94       290                  295                  300
96 Gln Leu Trp Leu Tyr Gln Asn Asp Gly Cys Leu Trp Trp Ser Pro Cys
97 305                  310                  315                  320
99 Thr Pro Phe Thr Glu Asp Pro Pro Ala Ser Leu Glu Val Leu Ser Glu
100                  325                  330                  335
102 Arg Cys Trp Gly Thr Met Gln Ala Val Glu Pro Gly Thr Asp Asp Glu
103               340                  345                  350
105 Gly Pro Leu Leu Glu Pro Val Gly Ser Glu His Ala Gln Asp Thr Tyr
106           355                  360                  365
108 Leu Val Leu Asp Lys Trp Leu Leu Pro Arg Asn Pro Pro Ser Glu Asp
109       370                  375                  380
111 Leu Pro Gly Pro Gly Gly Ser Val Asp Ile Val Ala Met Asp Glu Gly
112 385                  390                  395                  400
114 Ser Glu Ala Ser Ser Cys Ser Ser Ala Leu Ala Ser Lys Pro Ser Pro
115               405                  410                  415
117 Glu Gly Ala Ser Ala Ala Ser Phe Glu Tyr Thr Ile Leu Asp Pro Ser
118           420                  425                  430
120 Ser Gln Leu Leu Arg Pro Trp Thr Leu Cys Pro Glu Leu Pro Pro Thr
121           435                  440                  445
123 Pro Pro His Leu Lys Tyr Leu Tyr Leu Val Val Ser Asp Ser Gly Ile
124     450                  455                  460
126 Ser Thr Asp Tyr Ser Ser Gly Asp Ser Gln Gly Ala Gln Gly Gly Leu
127 465                  470                  475                  480
129 Ser Asp Gly Pro Tyr Ser Asn Pro Tyr Glu Asn Ser Leu Ile Pro Ala
130               485                  490                  495
132 Ala Glu Pro Leu Pro Pro Ser Tyr Val Ala Cys Ser
133           500                  505
136 <210> SEQ ID NO: 3
137 <211> LENGTH: 226
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
```

```
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
143       construct
145 <400> SEQUENCE: 3
146 Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala
147 1               5                   10                  15
149 Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arg
150             20                  25                  30
152 Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val
153         35                  40                  45
155 Gly Pro Gly Gln Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp
156     50                  55                  60
158 Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg
159 65                  70                  75                  80
161 Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu
162             85                  90                  95
164 Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val
165             100                 105                 110
167 Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val
168         115                 120                 125
170 Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro
171     130                 135                 140
173 Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val
174 145                 150                 155                 160
176 Ser Ala Gly Gln Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu
177             165                 170                 175
179 Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr
180             180                 185                 190
182 Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe
183         195                 200                 205
185 Trp Ser Glu Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu
186     210                 215                 220
188 Asp Pro
189 225
192 <210> SEQ ID NO: 4
193 <211> LENGTH: 226
194 <212> TYPE: PRT
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
199       construct
201 <400> SEQUENCE: 4
202 Ala Pro Pro Pro Asn Leu Pro Asp Pro Lys Phe Glu Ser Lys Ala Ala
203 1               5                   10                  15
205 Leu Leu Ala Ala Arg Gly Pro Glu Glu Leu Leu Cys Phe Thr Glu Arg
206             20                  25                  30
208 Leu Glu Asp Leu Val Cys Phe Trp Glu Glu Ala Ala Ser Ala Gly Val
209         35                  40                  45
211 Gly Pro Gly Gln Tyr Ser Phe Ser Tyr Gln Leu Glu Asp Glu Pro Trp
```

RAW SEQUENCE LISTING   DATE: 06/13/2006
PATENT APPLICATION: **US/10/620,491**   TIME: 09:55:59

Input Set : **A:\214381.APP**
Output Set: **N:\CRF4\06132006\J620491.raw**

```
212       50                    55                    60
214 Lys Leu Cys Arg Leu His Gln Ala Pro Thr Ala Arg Gly Ala Val Arg
215  65              70                    75                    80
217 Phe Trp Cys Ser Leu Pro Thr Ala Asp Thr Ser Ser Phe Val Pro Leu
218              85                    90                    95
220 Glu Leu Arg Val Thr Ala Ala Ser Gly Ala Pro Arg Tyr His Arg Val
221             100                   105                   110
223 Ile His Ile Asn Glu Val Val Leu Leu Asp Ala Pro Val Gly Leu Val
224             115                   120                   125
226 Ala Arg Leu Ala Asp Glu Ser Gly His Val Val Leu Arg Trp Leu Pro
227     130                   135                   140
229 Pro Pro Glu Thr Pro Met Thr Ser His Ile Arg Tyr Glu Val Asp Val
230 145                   150                   155                   160
232 Ser Ala Gly Gln Gly Ala Gly Ser Val Gln Arg Val Glu Ile Leu Glu
233             165                   170                   175
235 Gly Arg Thr Glu Cys Val Leu Ser Asn Leu Arg Gly Arg Thr Arg Tyr
236             180                   185                   190
238 Thr Phe Ala Val Arg Ala Arg Met Ala Glu Pro Ser Phe Gly Gly Phe
239     195                   200                   205
241 Trp Ser Glu Trp Ser Glu Pro Val Ser Leu Leu Thr Pro Ser Asp Leu
242     210                   215                   220
244 Asp Pro
245 225
```

VERIFICATION SUMMARY   DATE: 06/13/2006
PATENT APPLICATION: **US/10/620,491**   TIME: 09:56:00

Input Set : **A:\214381.APP**
Output Set: **N:\CRF4\06132006\J620491.raw**